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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,976	10/14/2003	Ismael A. Hernandez	SON-05-1522	7120
35811 75	11/06/2006		EXAMINER	
IP GROUP OF DLA PIPER US LLP			HAUGLAND, SCOTT J	
ONE LIBERTY PLACE 1650 MARKET ST, SUITE 4900			ART UNIT	PAPER NUMBER
	IA, PA 19103		3654	
			DATE MAILED: 11/06/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s)				
Office Action Summers	10/685,976	HERNANDEZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Scott Haugland	3654			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 18 Au	iaust 2006.				
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	·				
Disposition of Claims	•				
4) Claim(s) <u>1-15 and 17-51</u> is/are pending in the a	application.				
4a) Of the above claim(s) <u>1-11,19,23-32,36 and</u>	• •	nsideration.			
5) Claim(s) is/are allowed.					
6) Claim(s) <u>12-15,17,18,20-22,33-35 and 37-43</u> is	/are rejected.				
7) Claim(s) is/are objected to.	•				
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	-				
10) The drawing(s) filed on is/are: a) acce		Examiner			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correcti	- · ·				
11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •				
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)	1-(d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 55 5.5.5. § 115(a)	(4) 5. (1).			
1. Certified copies of the priority documents	s have been received				
2. Certified copies of the priority documents		on No			
3. ☐ Copies of the certified copies of the prior	• •				
application from the International Bureau	•	ou in the National Stage			
* See the attached detailed Office action for a list of	, , , ,	ed.			
Attachment(s)					
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/25/06.	5) Notice of Informal P 6) Other:	atent Application			
. aper majapinan sala <u>wasana</u> .					

Art Unit: 3654

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/18/06 has been entered.

Election/Restrictions

Claims 1-11, 19, 23-32, 36, and 44-51 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention and species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 5/31/05.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 37-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 37 recites the limitation "the circumferentially extending, longitudinal holes" on lines 13-14. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 12-15, 17, 18, and 20-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Adams et al (U.S. Pat. No. 4,852,823).

Adams et al discloses a yarn winding tube having a peripheral wall 25 and a yarn catch insert 41 for insertion into an elongated hole 31 formed through the yarn winding tube. Hole 31 is considered to be elongated since its largest dimension in the horizontal direction in Fig. 2 is greater than its maximum vertical dimension. The yarn catch insert 41 has an inside surface (lower face 43 in Fig. 4), an outside surface (upper face 43 in Fig. 4), and a side surface (extending between faces 43). A portion of the side surface is positioned opposite a portion of a side surface of the hole when the insert is inserted into the hole to form a start-up groove between the portion of the side surface of the

Art Unit: 3654

yarn catch insert and the portion of the side surface of the hole. A portion of the start-up groove is tapered in a circumferential direction of the tube and of the insert, e.g., the portion beginning at point 34 and upward in Fig. 2. The start-up groove tapers to a pinch point. The insert is made of plastic (col. 3, lines 40-41).

With regard to claim 12, note that the claim is directed to a yarn catch. The yarn catch disclosed by Adams et al is capable of use with the recited yarn winding tube.

With regard to claim 14, note that the edge between the outside surface 43 of the yarn catch insert and the portion of its side surface is radiused (Fig. 4).

With regard to claim 20, the yarn catch insert 41 has a lower portion (any of the lower portions of the insert that engage the sides of the hole) having a width corresponding to the width of the hole in the tube and an upper portion (note the rounded portion adjacent the top surface 43 of the insert in Fig. 4) having a width less than the width of the hole.

With regard to claim 21, the outside surface of the yarn catch insert is tapered radially inwardly adjacent to the start-up groove as a result of the rounded edges adjacent the inside and outside surfaces 43 (Fig. 4).

With regard to claim 22, note that the longitudinal dimension of the elongated hole lies on the tube and, therefore, extends around a portion of the circumference of the tube.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adams et al.

Adams et al is described above.

Adams et al does not disclose that the hole in the yarn winding tube is nonsymmetrical.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the hole 31 of Adams et al non-symmetrical since it would have been clear that the hole need not have the precise shape shown in Adams et al and need not be symmetrical to perform its intended function.

With regard to claim 33, note that the hole extends along the circumference of the tube and longitudinally of the tube.

Claims 37-40 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dunlap (U.S. Pat. No. 2,679,989) in view of either Powel et al (U.S. Pat. No. 4,901,941) or Adams et al.

Dunlap discloses a yarn carrier comprising a hollow cylindrical inner tube 25 and a hollow cylindrical outer tube 31 having a longitudinal axis parallel to a longitudinal axis of the inner tube and an inner diameter greater than the outer diameter of the inner tube.

Dunlap does not disclose holes formed along portions of the circumferences of the inner and outer tubes.

Powel et al teaches providing a tubular yarn carrier with a hole 25, 110 through the wall of the yarn carrier to facilitate severing of yarn to free a transfer tail.

Adams et al teaches providing a tubular yarn carrier with a hole 31 through a wall of the yarn carrier to receive a yarn catch insert 41 for retaining a yarn end on the carrier.

It would have been obvious to one having ordinary skill in the art to provide the yarn carrier of Dunlap with a hole entirely through the wall of the yarn carrier as taught by Powel et al to facilitate severing of a yarn end or as taught by Adams et al to receive a yarn catch insert to retain a yarn end on the yarn carrier. The resulting modified yarn carrier of Dunlap would have aligned holes in the inner and outer tubes. The holes would extend longitudinally and circumferentially of the tubes.

With regard to claim 40, Dunlap appears to indicate that outer tube 31 is make of paper (col. 2, line 47; col. 3, line 55). In any case, it would have been obvious to make the outer tube of paper similarly to the inner tube to form a light weight and inexpensive bobbin.

Art Unit: 3654

Claims 41 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dunlap in view of either Powel et al or Adams et al as applied to claims 37 and 40 above, and further in view of Qiu et al (U.S. Pat. No. 5,505,395).

Dunlap does not disclose that the composition of the paper of the outer tube varies along the thickness of the outer tube or that an inside portion of the outer tube is softer than an outside portion of the outer tube.

Qui et al teaches forming a paper tube for winding yarn of a paper composition that varies along the thickness of the tube. Softer, lower density layers 26, 28 are located in an inside portion of the paper tube. Harder, higher density layers 22, 24 are located in a outside portion of the tube.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the outer tube of the yarn carrier of Dunlap with a paper composition that varies along the thickness of the tube as taught by Qui et al to improve the strength of the tube.

Response to Arguments

Applicants' arguments filed 8/18/06 have been fully considered but they are not persuasive.

Applicants argue that the start-up groove in Adams is not formed in the circumferential surface of the tube, but in the end of the tube. However, hole 31 in Adams is formed in the circumferential surface of the tube. The holes that receive spindles 12, 13 are in the ends 22, 23 of the tube.

Applicants argue that the hole in the tube in Adams is not elongated in the circumferential direction, that hole does not form, in combination with the resilient insert, a circumferentially directed groove, and that there is no tapered groove formed in Adams. However, the hole is elongated (e.g., see Fig. 2). The hole extends circumferentially and around or along a portion of the circumference of the tube as claimed. Note that claim 12 and dependent claims are directed only to an insert, not a yarn carrier including a tube with a hole. The groove formed by the insert is tapered in a direction along the circumference of the tube. The groove is tapered to form notches 44, 45 (Fig. 2).

Applicants argue that winding tubes in Powel and Adams do not have circumferentially extending holes and that the holes in Powel do not form a start-up groove. However, the holes in the tubes in Adams and Powel extend along a portion of a circumference of the tube as claimed. Claims 37-40 do not require a start-up groove.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Haugland whose telephone number is (571) 272-6945. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathy Matecki can be reached on (571) 272-6951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/685,976

Art Unit: 3654

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PRIMARY EXAMINER

Page 9